

FIGURE 1

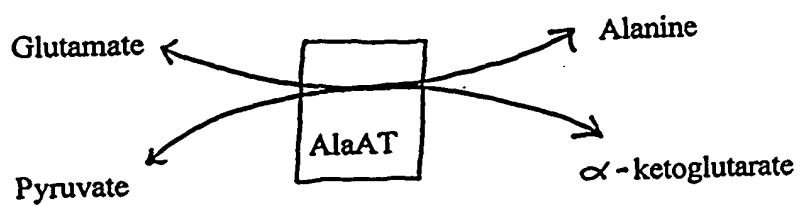
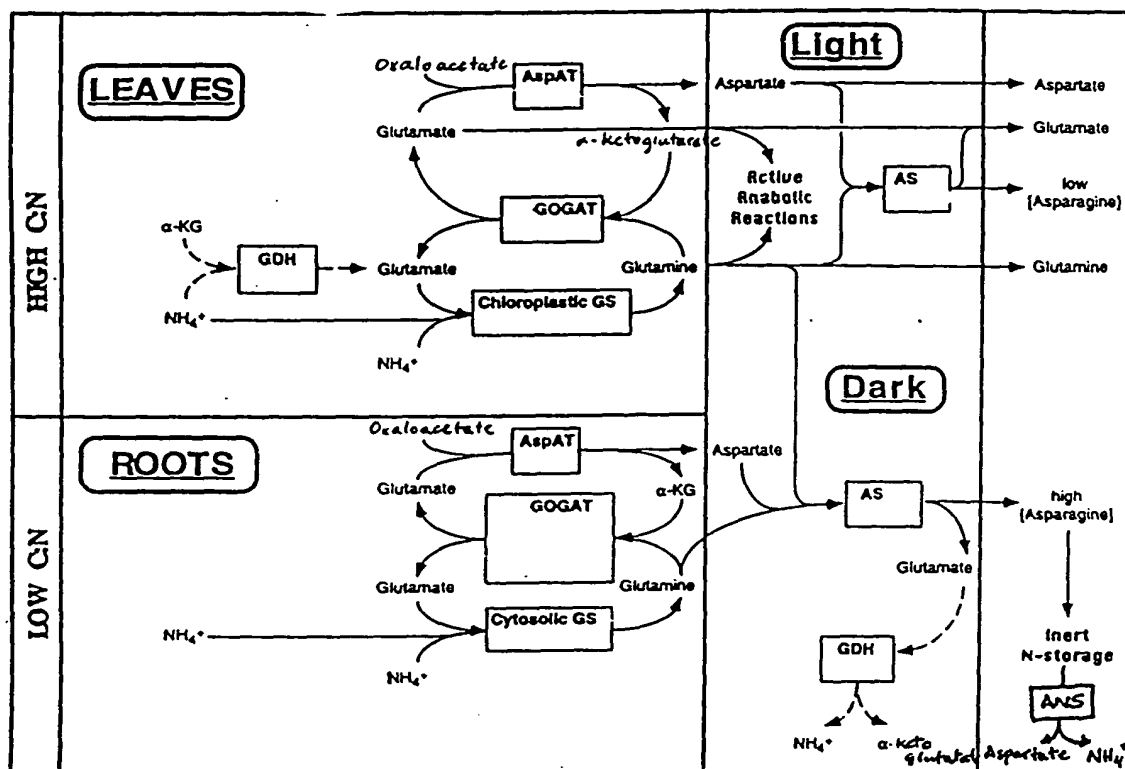
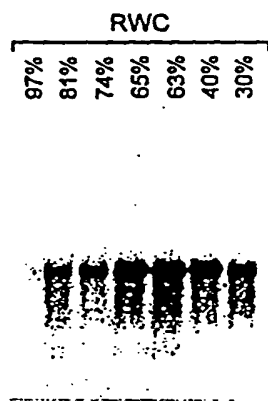


FIGURE 2

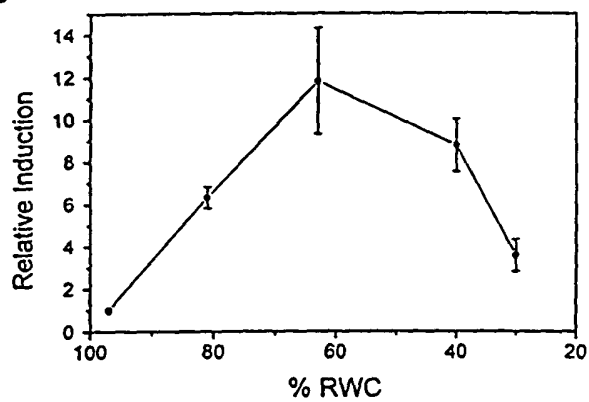
FIGURE 3

GTGGACCTGCAGCTCACGATCCTAATCCGGGTATATCCGACCCGAAAGAAACGTAGGACACGTG -250
ACAAACTTCATATGATCCGAGTGAATCAAGCCAAAGGGGATTGACACACAGCTCAGCTTTCGTTT -180
CGGTCAATCGCTGTTCCACTTACTTACAAGTCGTACACGCTCTCTCTCTCTCTCTCTCTCTCACTC -110
ACTTCCTCTTATAAGACCTCTGTGATCAAACTATATCGGAACCTCCATTCTTTGATACCATCGATAA -40
TACTAGAGAGGTGATTCATTCTTTAATCACTGTTGATATTCCTTAACTTTGATCCATTTACTCTGTTC A +1→ 31
ATCATTTTGTAGAC

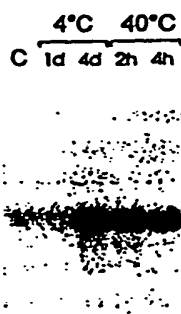
A



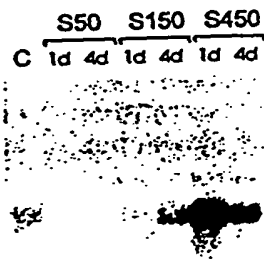
B



C



D



E



FIGURE 4

GGCCACAAAACCGCGAAAGAGATAGACGGACAGCTAGAGCGTCGGAAGATACTCGTGCTCTGCCGCCCCCTTCGTCTTAGTTGATCTCGCC	94
ATGGCTGCCACCGTCGCGTGGACAACCTGAACCCCAAGGTTTTAAATGTGAGTATGCTGTGCGTGGAGAGATTGTCTCATGCTCAGCGCTTG	190
M A A T V A V D N L N P K V L K C E Y A V R G E I V I H A Q R L	32
CAGGAACAGCTAAAGACTCAACCAGGGTCTCTACCTTTTGATGAGATCCTCTATTGTAACATTGGGAACCCACAATCTCTTGGTCAGCAACAGTT	286
Q E Q L K T Q P G S L P F D E I L Y C N I G N P Q S L G Q Q P V	64
ACATTCTTCAGGGAGGTTCTTGCCCTTTGTGATCATCCAGACCTGTTGCAAAGAGAGGAAATCAAAACATTGTTCACTGCTGATTCTATTCTCGA	382
T F F R E V L A L C D H P D L L Q R E E I K T L F S A D S I S R	96
GCAAAGCAGATTCTTGCCATGATACCTGGAAGAGCAACAGGAGCATACAGCCATAGCCAGGGTATTAAAGGACTTCGTGATGCAATTGCTTCTGGG	478
A K Q I L A M I P G R A T G A Y S H S Q G I K G L R D A I A S G	128
ATCGCTTCACGAGATGGATTCCCTGCTAATGCTGATGACATTTTCTCACAGATGGAGCAAGTCCCTGGGGTGCACTGATGATGCAATTACTGATA	574
I A S R D G F P A N A D D I F L T D G A S P G V H L M M Q L L I	160
AGGAATGAGAAAGATGGCATTCTTGTCCTGATCTCTAGTACCCCTTGTACTCGGCTTCCATAGCTCTTCATGGCGGAGCTCTTGTCCTACTAT	670
R N E K D G I L V P I P Q Y P L Y S A S I A L H G G A L V P Y Y	192
CTCAATGAATCGACGGGCTGGGGTTTGAAACCTCTGATGTTAAGAAGCAACTGAAGATGCTCGGTCAAGAGGCATCAACGTTAGGGCTTTGGTG	766
L N E S T G W G L E T S D V K K Q L E D A R S R G I N V R A L V	224
GTTATCAATCCAGGAAATCCAACCTGGACAGGTACTTGCTGAAGAAAACCAATATGACATAGTGAAGTTCTGCAAAATGAGGGTCTTGTTCTTCTA	862
V I N P G N P T G Q V L A E E N Q Y D I V K F C K N E G L V L L	256
GCTGATGAGGTATACCAAGAGAACATCTATGTTGACAACAAGAAATCCACTCTTTCAAGAAGATAGTGAGATCCTTGGGATACGGCGAGGAGGAT	958
A D E V Y Q E N I Y V D N K K F H S F K K I V R S L G Y G E E D	288
CTCCCTCTAGTATCATATCAATCTGTTTCTAAGGGATATTATGGTGAAGTGTGGTAAAGAGGTGGTTACTTTGAGATTACTGGCTTCAGTGCTCCA	1054
L P L V S Y Q S V S K G Y Y G E C G K R G G Y F E I T G F S A P	320
GTAAGAGAGCAGATCTACAAAATAGCATCAGTGAACCTATGCTCCAATATCACTGGCCAGATCCTTGCTAGTCTTGTCATGAACCCACCAAAGGCT	1150
V R E Q I Y K I A S V N L C S N I T G Q I L A S L V M N P P K A	352
AGTGATGAATCATACGCTTCATACAAGGCAGAAAAAGATGGAATCCTCGCATCTTTAGCTCGTCTGCGAAGGCATTGGAGCATGCATTCAATAAA	1246
S D E S Y A S Y K A E K D G I L A S L A R R A K A L E H A F N K	384
CTTGAGGGAATTACTTGCAACGAGGCTGAAGGAGCAATGTACGTGTTCCCTCAAACTGCTGCTGCCACAGAAGGCAATTGAGGCTGCTAAAGCTGCT	1342
L E G I T C N E A E G A M Y V F P Q I C L P Q K A I E A A K A A	416
AACAAAGCACCTGATGCATTCTATGCTCTTCTCTCTCTCGAGTGGAGTGGAAATCGTCTGTTGCTCCCTGGATCAGGATTGGCCAGGTTCTCTGGCACA	1438
N K A P D A F Y A L R L L E S T G I V V V P G S G F G Q V P G T	448
TGGCACTTCAGGTGCACGATCCTTCCGAGGAGGATAAGATCCCGGCAGTCACTCCCGCTTCAAGGTGTTCCATGAGGCGTTTATGTCAGAGTAT	1534
W H F R C T I L P Q E D K I P A V I S R F T V F H E A F M S E Y	480
CGTGACTAAACTGGTGCAACATGTGGGATTACATACAACCTCATGGGGTTTTGCTAGGCGTTCTTGTTTGGCCCCCCCCCTTCTCTCTCTC	1630
R D	482
TCTCTCTCTGACAGCATCCTCTCTAGATGAGACAAAATAAGCAAAGCCATGTCTCTTAAAAA	1701

FIGURE 5

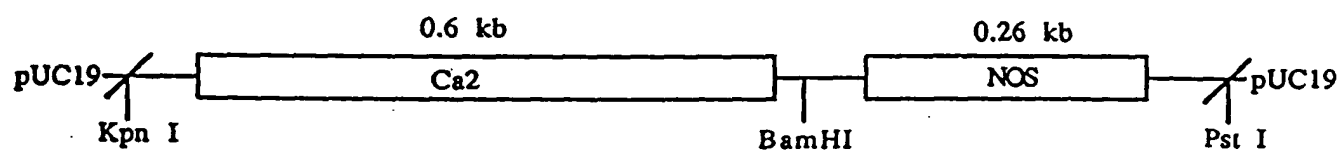


FIGURE 6

FIGURE 7A

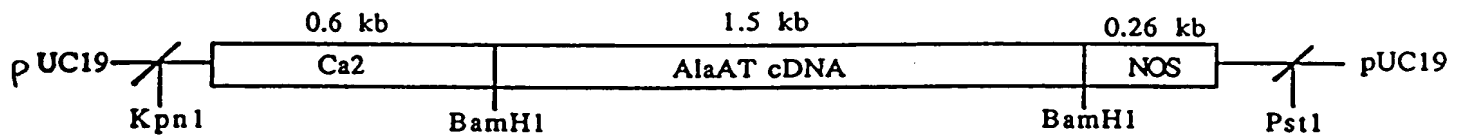


FIGURE 7B

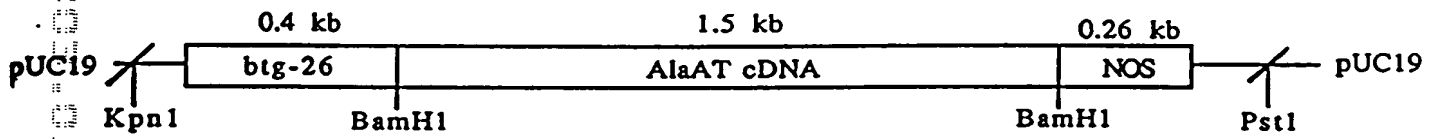


FIGURE 7C

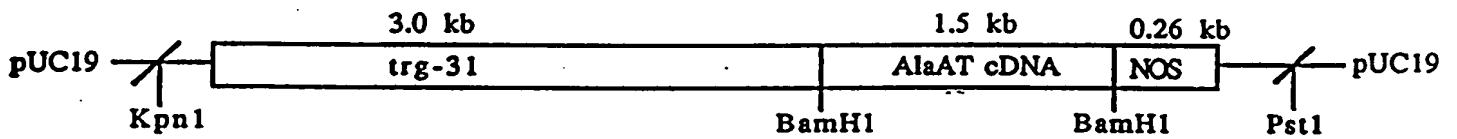


FIGURE 7

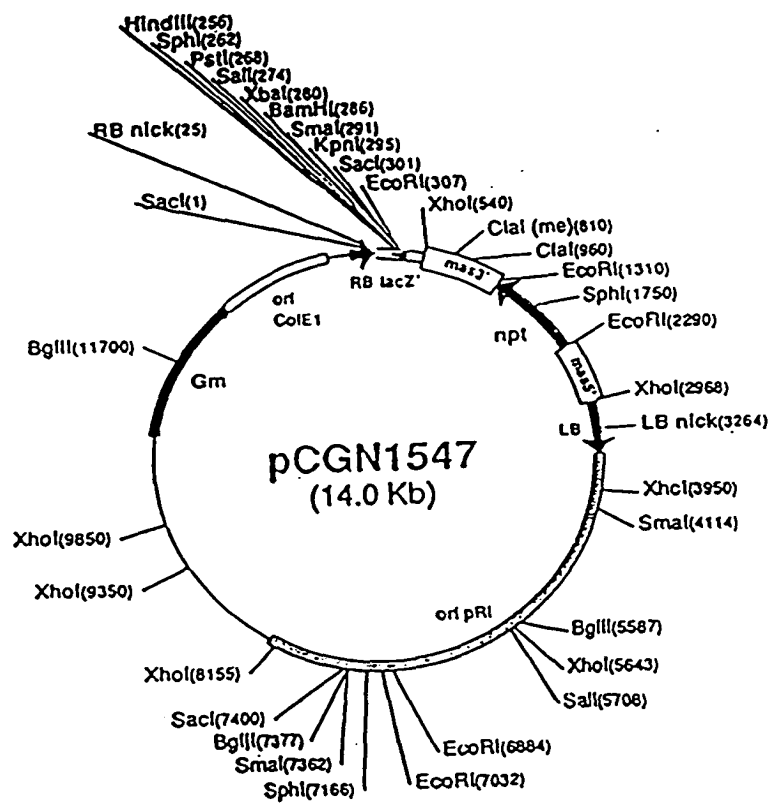


FIGURE 8

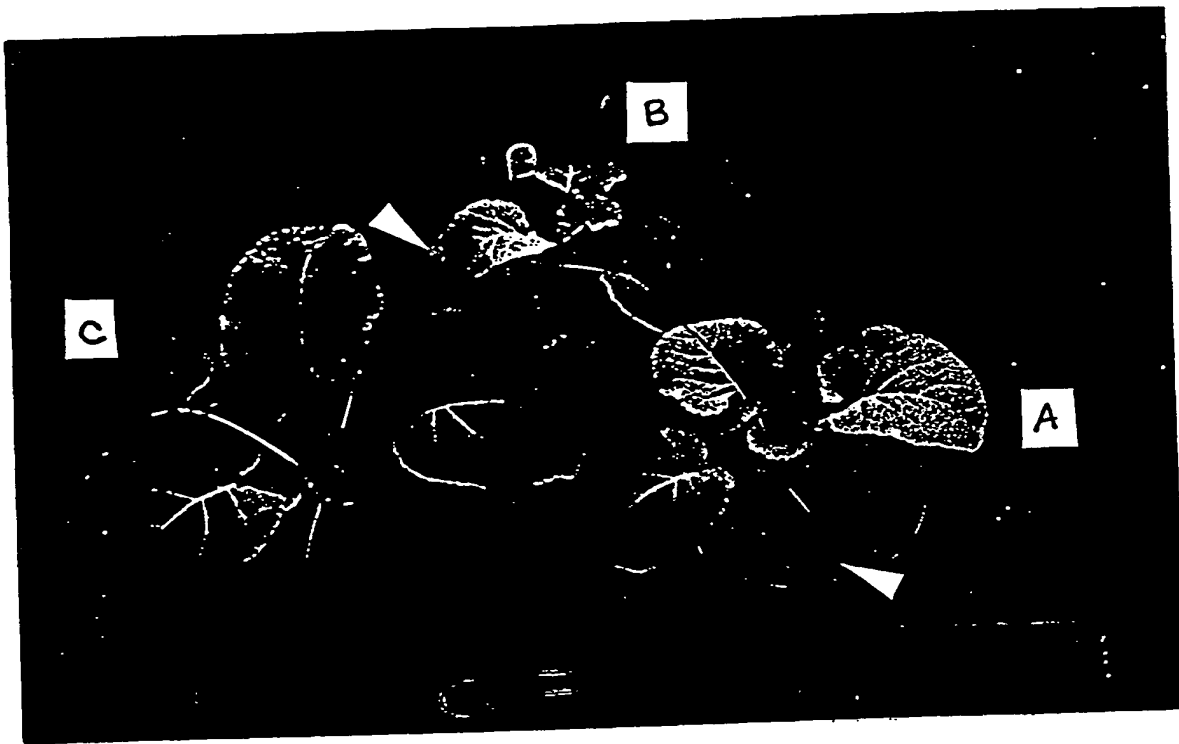
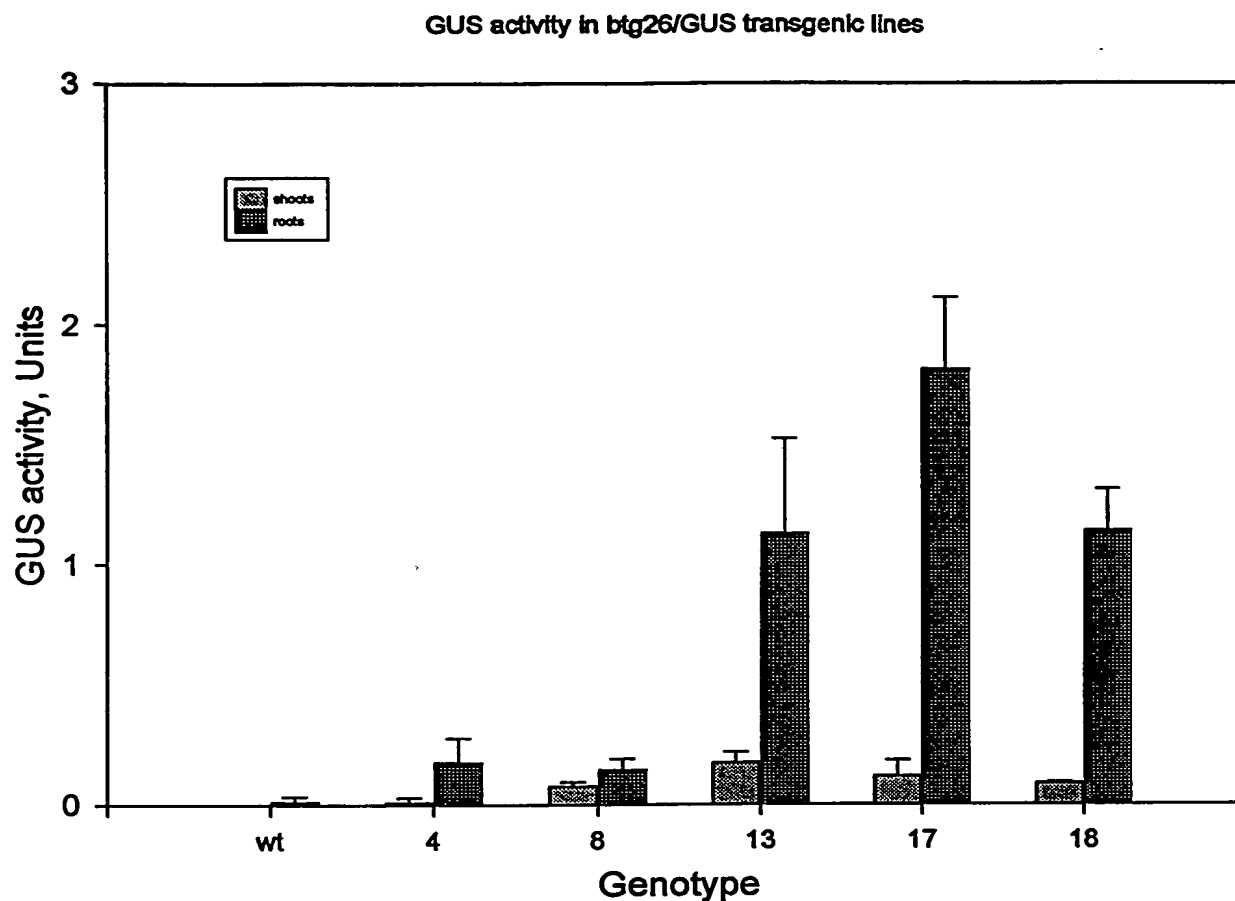


FIGURE 9



Root/shoot ratios:

<i>btg26</i>/GUS, line 4	-	19.5
<i>btg26</i>/GUS, line 8	-	1.9
<i>btg26</i>/GUS, line 13	-	6.5
<i>btg26</i>/GUS, line 17	-	15.7
<i>btg26</i>/GUS, line 18	-	13.2

FIGURE 11.

AAT-58F

L

R

AAT-81

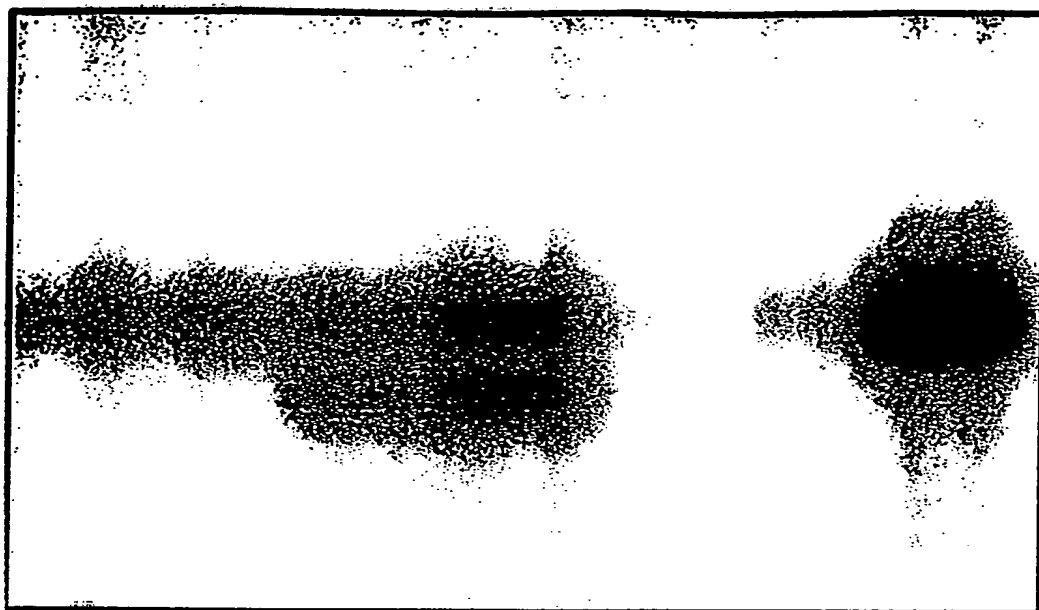
L

R

Control

L

R



1.00 1.25 1.36 3.83 0 0 26.52
(212.16)

FIGURE 12

AlaAT activity in shoots of wild type, cv. Westar, and transgenic, btg26/AlaAT line 81B, plants grown hydroponically on 0.5 mM nitrate after 36 hours of salt treatment

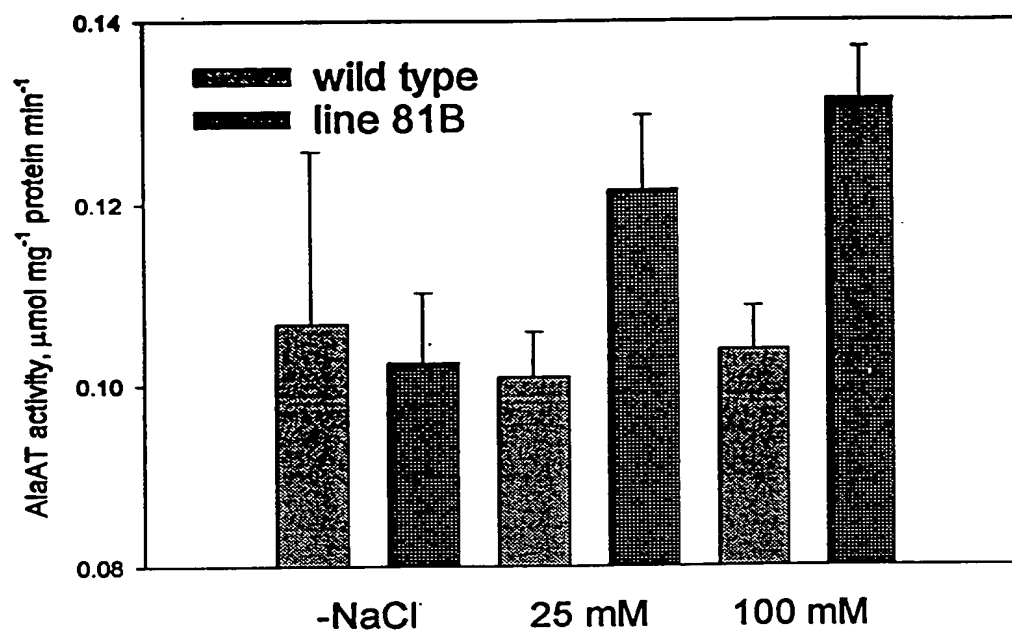


FIGURE 14

Growth conditions:

The plants were grown hydroponically for 2 weeks in 60 L tanks before salinity treatment

AlaAT activity in roots of wild type, cv. Westar, and transgenic, btg26/AlaAT line 81B, plants grown hydroponically on 0.5 mM nitrate after 36 hours of salt treatment

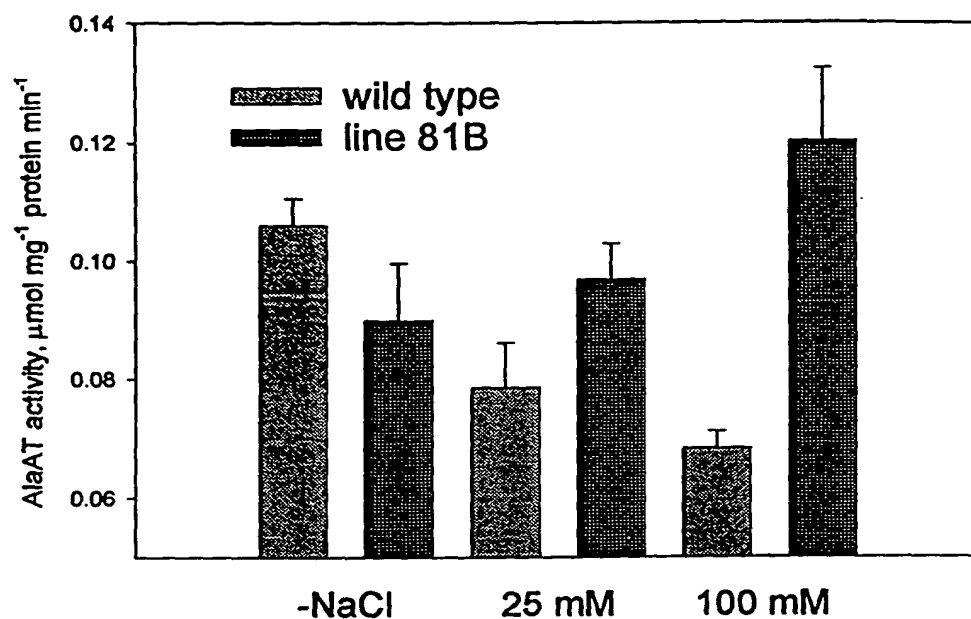


FIGURE 15

Growth conditions:

The plants were grown hydroponically for 2 weeks in 60 L tanks before salinity treatment

**Effect of salinity on biomass accumulation of wild type, cv. Westar,
and transgenic, *btg26/AlaAT*, line 81B, plants**

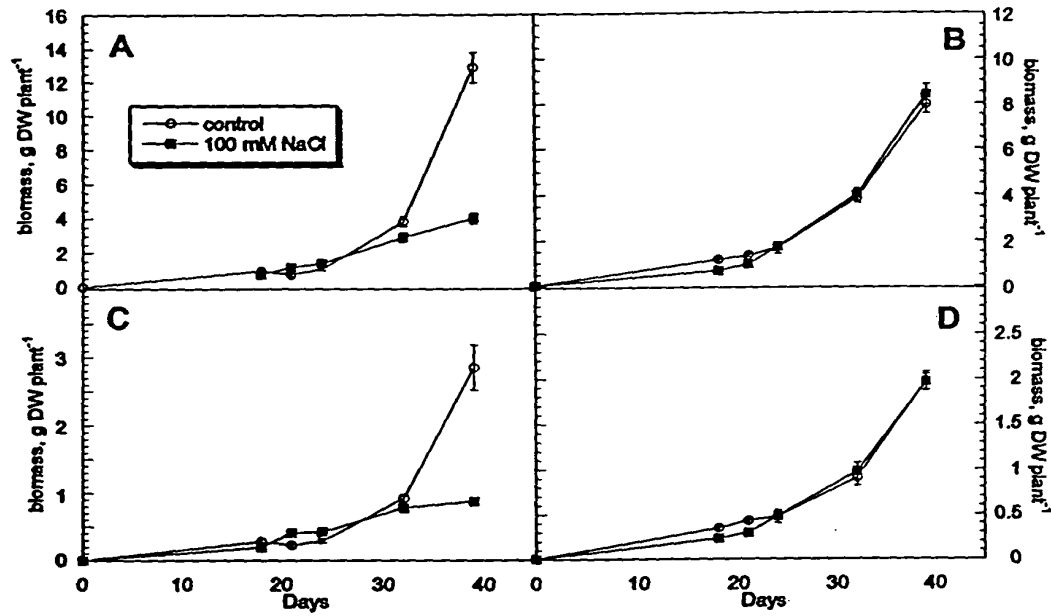


FIGURE 16

Legend

- A. Wild type shoots;
- B. *btg26/AlaAT* shoots;
- C. Wild type roots;
- D. *btg26/AlaAt* roots.

FIGURE 17

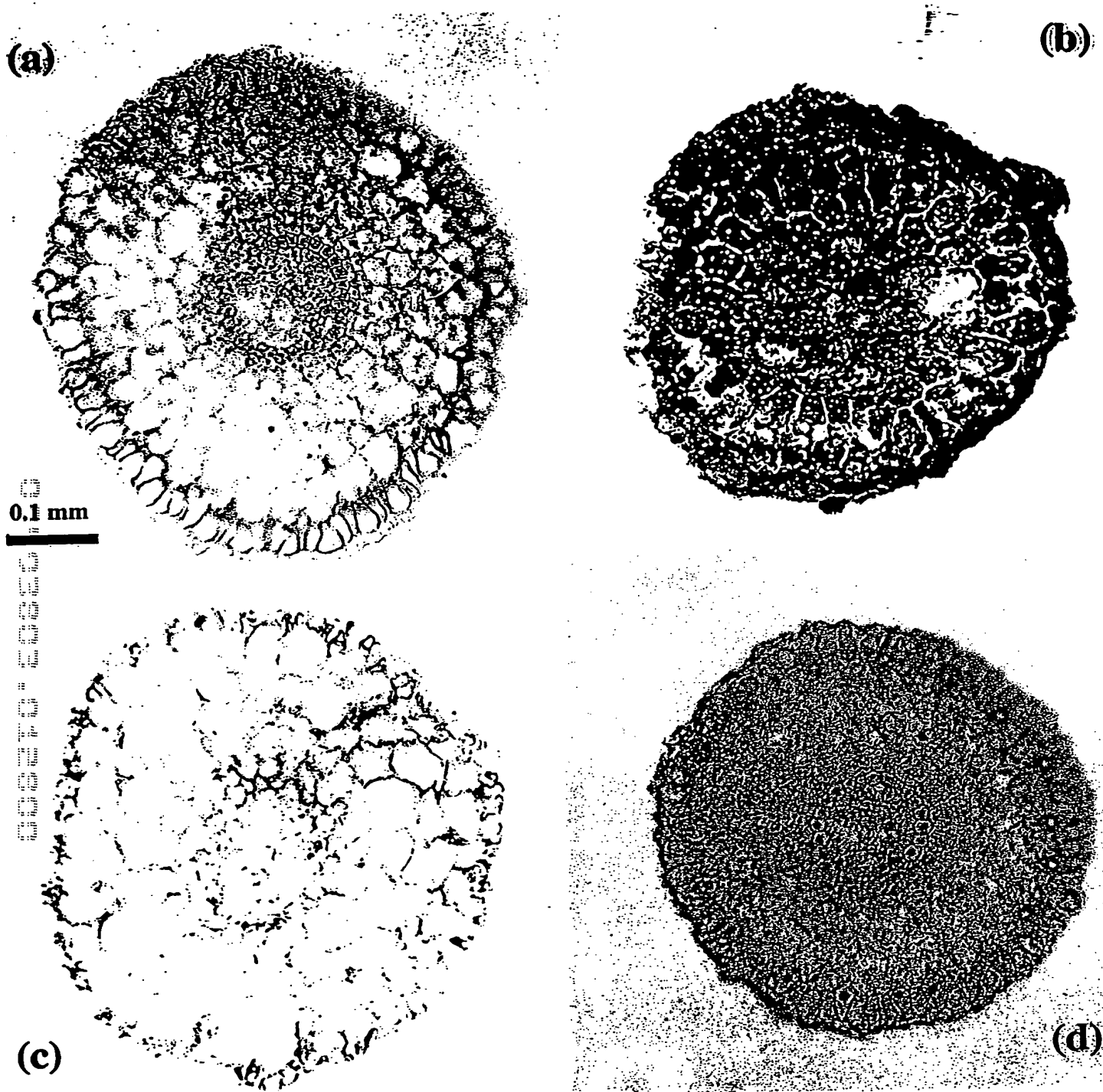


FIGURE 18